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1646 #5

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**RAW SEQUENCE LISTING
PATENT APPLICATION US/09/037,460**

DATE: 11/25/98
TIME: 13:35:09

INPUT SET: S30053.raw

This Raw Listing contains the General Information Section and up to the first 5 pages.

1 SEQUENCE LISTING

3 (1) General Information:
4 (i) APPLICANT: HASTINGS, ET AL.
5
6 (ii) TITLE OF INVENTION: Human Vascular IBP-Like Growth
7 Factor
8
9 (iii) NUMBER OF SEQUENCES: 17

11 (iv) CORRESPONDENCE ADDRESS:
12
13 (A) ADDRESSEE: CARELLA, BYRNE, BAIN, GILFILLAN,
14 CECCHI, STEWART & OLSTEIN
15 (B) STREET: 6 BECKER FARM ROAD
16 (C) CITY: ROSELAND
17 (D) STATE: NEW JERSEY
18 (E) COUNTRY: USA
19 (F) ZIP: 07068

21 (v) COMPUTER READABLE FORM:
22 (A) MEDIUM TYPE: 3.5 INCH DISKETTE
23 (B) COMPUTER: IBM PS/2
24 (C) OPERATING SYSTEM: MS-DOS
25 (D) SOFTWARE: WORD PERFECT 5.1

27 (vi) CURRENT APPLICATION DATA:
28 (A) APPLICATION NUMBER: 09/037,460
29 (B) FILING DATE:
30 (C) CLASSIFICATION:

32 (vii) PRIORITY APPLICATION DATA:
33 (A) APPLICATION NUMBER: 08/464,339
34 (B) FILING DATE: June 5, 1995
35
36 (A) APPLICATION NUMBER: PCT/US94/14388
37 (B) FILING DATE: 9 DEC 1994

40 (viii) ATTORNEY/AGENT INFORMATION:
41 (A) NAME: MULLINS, J.G.
42 (B) REGISTRATION NUMBER: 33,073
43 (C) REFERENCE/DOCKET NUMBER: 325800-332
44
45 (ix) TELECOMMUNICATION INFORMATION:
46 (A) TELEPHONE: 201-994-1700

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47 (B) TELEFAX: 201-994-1744

48

49 (2) INFORMATION FOR SEQ ID NO:1:

50

51 (i) SEQUENCE CHARACTERISTICS:

52 (A) LENGTH: 1271 BASE PAIRS

53 (B) TYPE: NUCLEIC ACID

54 (C) STRANDEDNESS: SINGLE

55 (D) TOPOLOGY: LINEAR

56

57 (ii) MOLECULE TYPE: cDNA

58

59 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:

60

61 CTGCTTCCA	CCAGCAAAGA	CCACGACTGG	AGAGCCGAGC	CGGAGCAGCT	GGGAAACATG	60
62 AAGAGCGTCT	TGCTGCTGAC	CACGCTCCTC	GTGCCTGCAC	ACCTGGTGGC	CGCCTGGAGC	120
63 AATAATTATG	CGGTGGACTG	CCCTCAACAC	TGTGACAGCA	GTGAGTGCAC	AAGCAGCCCG	180
64 CGCTGCAAGA	GGACAGTGCT	CGACGACTGT	GGCTGCTGCC	GAGTGTGCGC	TGCAGGGCGG	240
65 GGAGAAACTT	GCTACCGCAC	AGTCTCAGGC	ATGGATGGCA	TGAAGTGTGG	CCCGGGCTG	300
66 AGGTGTCAGC	CTTCTAATGG	GGAGGGATCCT	TTTGGTGAAG	AGTTTGGTAT	CTGCAAAGAC	360
67 TGTCCCTACG	GCACCTTCGG	GATGGATTGC	AGAGAGACCT	GCAACTGCCA	GTCAGGCATC	420
68 TGTGACAGGG	GGACGGGAAA	ATGCCTGAAA	TTCCCCTCT	TCCAATATTC	AGTAACCAAG	480
69 TCTTCCAACA	GATTTGTTTC	TCTCACGGAG	CATGACATGG	CATCTGGAGA	TGGCAATATT	540
70 GTGAGAGAAG	AAGTTGTCAA	AGAGAATGCT	GCCGGGTCTC	CCGTAATGAG	GAAATGGTTA	600
71 AATCCACGCT	GATCCCGGCT	GTGATTTCTG	AGAGAAGGCT	CTATTTCTG	GAYTGTCAA	660
72 CACACAGCCA	ACATTTAGG	AACTTTCTAG	ATTATAGCAT	AAGGACATGT	AATTTTGAA	720
73 GACCAAATGT	GATGCATGGT	GGATCCAGAA	AACAAAAGT	AGGATACTTA	CAATCCATAA	780
74 CATCCATATG	ACTGAACACT	TGTATGTGTT	TGTTAAATAT	TCGAATGCAT	GTAGATTGT	840
75 TAAATGTGTG	TGTATAGTAA	CACTGAAGAA	CTAAAAATGC	AATTTAGGTA	ATCTTACATG	900
76 GAGACAGGTC	AACCAAAGAG	GGAGCTAGGC	AAAGCTGAAG	ACCGCAGTGA	GTCAAATTAG	960
77 TTCTTGTACT	TTGATGTACA	TTAATGTTGG	GATATGGAAT	GAAGACTTAA	GAGCAGGAGA	1020
78 AGATGGGGAG	GGGGTGGGAG	TGGGAAATAA	AATATTTAGC	CCTTCCTTGG	TAGGTAGCTT	1080
79 CTCTAGAATT	TAATTRTGCT	TTTTTTTTTT	TTTTTGGGCT	TTGGGAAAAG	TCAAAATAAA	1140
80 ACAACCAGAA	AACCCCTGAA	GGAAGTAAGA	TGTTTGAAGC	TTATGGAAT	TTGAGTAACA	1200
81 AACAGCTTTG	ANCTGAGAGC	AATTYCAAAA	GGCTGCTGAT	GTAGCCCCCG	GGTTNCCTNT	1260
82 NTCTNAAGGA	C					1271

83

84

85 (2) INFORMATION FOR SEQ ID NO:2:

86 (i) SEQUENCE CHARACTERISTICS:

87 (A) LENGTH: 184 AMINO ACIDS

88 (B) TYPE: AMINO ACID

89 (C) STRANDEDNESS:

90 (D) TOPOLOGY: LINEAR

91

92 (ii) MOLECULE TYPE: PROTEIN

93

94 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:

95

96 Met Lys Ser Val Leu Leu Leu Thr Thr Leu Leu Val Pro Ala His

97 -20 -15 -10

98 Leu Val Ala Ala Trp Ser Asn Asn Tyr Ala Val Asp Cys Pro Gln

99 -5 1 5

RAW SEQUENCE LISTING
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100 His Cys Asp Ser Ser Glu Cys Lys Ser Ser Pro Arg Cys Lys Arg
101 10 15 20
102 Thr Val Leu Asp Asp Cys Gly Cys Cys Arg Val Cys Ala Ala Gly
103 25 30 35
104 Arg Gly Glu Thr Cys Tyr Arg Thr Val Ser Gly Met Asp Gly Met
105 40 45 50
106 Lys Cys Gly Pro Gly Leu Arg Cys Gln Pro Ser Asn Gly Glu Asp
107 55 60 65
108 Pro Phe Gly Glu Glu Phe Gly Ile Cys Lys Asp Cys Pro Tyr Gly
109 70 75 80
110 Thr Phe Gly Met Asp Cys Arg Glu Thr Cys Asn Cys Gln Ser Gly
111 85 90 95
112 Ile Cys Asp Arg Gly Thr Gly Lys Cys Leu Lys Phe Pro Phe Phe
113 100 105 110
114 Gln Tyr Ser Val Thr Lys Ser Ser Asn Arg Phe Val Ser Leu Thr
115 115 120 125
116 Glu His Asp Met Ala Ser Gly Asp Gly Asn Ile Val Arg Glu Glu
117 130 135 140
118 Val Val Lys Glu Asn Ala Ala Gly Ser Pro Val Met Arg Lys Trp
119 145 150 155
120 Leu Asn Pro Arg
121 160
122
123 (2) INFORMATION FOR SEQ ID NO:3:
124
125 (i) SEQUENCE CHARACTERISTICS:
126 (A) LENGTH: 31 BASE PAIRS
127 (B) TYPE: NUCLEIC ACID
128 (C) STRANDEDNESS: SINGLE
129 (D) TOPOLOGY: LINEAR
130 (ii) MOLECULE TYPE: Oligonucleotide
131
132 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:
133
134 CGCAAGCTTA AATAATTATG CGGTGGACTG C 31
135
136 (2) INFORMATION FOR SEQ ID NO:4:
137
138 (i) SEQUENCE CHARACTERISTICS:
139 (A) LENGTH: 27 BASE PAIRS
140 (B) TYPE: NUCLEIC ACID
141 (C) STRANDEDNESS: SINGLE
142 (D) TOPOLOGY: LINEAR
143 (ii) MOLECULE TYPE: Oligonucleotide
144
145 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:
146
147 CGCTCTAGAT CAGCGTGGAT TTAACCA 27
148
149 (2) INFORMATION FOR SEQ ID NO:5:
150
151 (i) SEQUENCE CHARACTERISTICS:
152 (A) LENGTH: 38 BASE PAIRS

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153 (B) TYPE: NUCLEIC ACID
154 (C) STRANDEDNESS: SINGLE
155 (D) TOPOLOGY: LINEAR
156 (ii) MOLECULE TYPE: Oligonucleotide
157
158 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:
159
160 CGCAGATCTC CGCCACCATG AAGAGCGTCT TGCTGCTG 38
161
162 (2) INFORMATION FOR SEQ ID NO:6:
163
164 (i) SEQUENCE CHARACTERISTICS:
165 (A) LENGTH: 30 BASE PAIRS
166 (B) TYPE: NUCLEIC ACID
167 (C) STRANDEDNESS: SINGLE
168 (D) TOPOLOGY: LINEAR
169 (ii) MOLECULE TYPE: Oligonucleotide
170
171 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:6:
172
173 CGCAGATCTA GCCTTCTCTC AGAAATCACA 30
174
175 (2) INFORMATION FOR SEQ ID NO:7:
176
177 (i) SEQUENCE CHARACTERISTICS:
178 (A) LENGTH: 19 BASE PAIRS
179 (B) TYPE: NUCLEIC ACID
180 (C) STRANDEDNESS: SINGLE
181 (D) TOPOLOGY: LINEAR
182 (ii) MOLECULE TYPE: Oligonucleotide
183
184 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:7:
185
186 GGGTTTCCCC AGTCACGAC 19
187
188 (2) INFORMATION FOR SEQ ID NO:8:
189
190 (i) SEQUENCE CHARACTERISTICS:
191 (A) LENGTH: 18 BASE PAIRS
192 (B) TYPE: NUCLEIC ACID
193 (C) STRANDEDNESS: SINGLE
194 (D) TOPOLOGY: LINEAR
195 (ii) MOLECULE TYPE: Oligonucleotide
196
197 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:8:
198
199 ATGCTTCCGG CTCGTATG 18
200
201 (2) INFORMATION FOR SEQ ID NO:9:
202
203 (i) SEQUENCE CHARACTERISTICS:
204 (A) LENGTH: 19 BASE PAIRS
205 (B) TYPE: NUCLEIC ACID

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206 (C) STRANDEDNESS: SINGLE
207 (D) TOPOLOGY: LINEAR
208 (ii) MOLECULE TYPE: Oligonucleotide
209
210 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:9:
211
212 GGGTTTCCCC AGTCACGAC 19
213
214 (2) INFORMATION FOR SEQ ID NO:10:
215
216 (i) SEQUENCE CHARACTERISTICS:
217 (A) LENGTH: 18 BASE PAIRS
218 (B) TYPE: NUCLEIC ACID
219 (C) STRANDEDNESS: SINGLE
220 (D) TOPOLOGY: LINEAR
221
222 (ii) MOLECULE TYPE: Oligonucleotide
223
224 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:10:
225
226 ATGCTTCCGG CTCGTATG 18
227
228 (2) INFORMATION FOR SEQ ID NO:11:
229 (i) SEQUENCE CHARACTERISTICS:
230 (A) LENGTH: 90 AMINO ACIDS
231 (B) TYPE: AMINO ACID
232 (C) STRANDEDNESS:
233 (D) TOPOLOGY: LINEAR
234
235 (ii) MOLECULE TYPE: PROTEIN
236
237 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:11:
238
239 Met Gly Ser Ala Gly Ala Arg Pro Ala Leu Ala Ala Ala Leu Leu
240 5 10 15
241 Cys Leu Ala Arg Leu Ala Leu Gly Ser Pro Cys Pro Ala Val Cys
242 20 25 30
243 Gln Cys Pro Ala Ala Ala Pro Gln Cys Ala Pro Gly Val Gly Leu
244 35 40 45
245 Val Pro Asp Gly Cys Gly Cys Cys Lys Val Cys Ala Lys Gln Leu
246 50 55 60
247 Asn Glu Asp Cys Ser Arg Thr Gln Pro Cys Asp His Thr Lys Gly
248 65 70 75
249 Leu Glu Cys Asn Arg Leu Val Asn Asp Ile His Lys Phe Arg Asp
250 80 85 90
251
252 (2) INFORMATION FOR SEQ ID NO:12:
253 (i) SEQUENCE CHARACTERISTICS:
254 (A) LENGTH: 90 AMINO ACIDS
255 (B) TYPE: AMINO ACID
256 (C) STRANDEDNESS:
257 (D) TOPOLOGY: LINEAR
258

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SEQUENCE VERIFICATION REPORT
PATENT APPLICATION **US/09/037,460**

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Original Text